

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_1 ~ C1216XT-50LXXK-NDEX-TCY-SOXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00629_1
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C1216XT-50L-xxK-ND-EX-TCY-SO
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Narrow Beam
[OTHER] Solite Lens, Flush with Lower Trim
[OTHER] 25.1 Degree Beam Angle
[OTHER] Aimed at 0 Degrees
[LAMPCAT] N/A, 19mm LES
[LAMP] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4464
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_1 ~ C1216XT-50LXXK-NDEX-TCY-SOXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	61585	61950	63155
55	27685	27395	28887
65	16069	16397	17360
75	13333	14181	13554
85	8477	9626	10425

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667
5	8397.599	8613.429	8420.732	8590.051	8480.696	8465.121	8562.546	8396.696	8612.582	8448.488
10	5904.117	6077.084	5834.744	6066.753	5880.974	5810.015	6025.755	5836.846	6096.948	5870.267
15	3728.871	3779.007	3664.755	3797.863	3675.975	3586.039	3709.227	3673.656	3774.156	3615.383
20	2483.387	2456.475	2451.847	2520.621	2447.266	2368.782	2414.528	2458.030	2458.910	2361.071
25	1940.938	1921.364	1932.812	1955.920	1922.408	1878.421	1885.207	1915.896	1895.012	1851.620
30	1663.096	1685.175	1676.555	1693.595	1665.350	1648.285	1649.025	1632.653	1620.636	1587.122
35	1349.880	1395.401	1370.422	1406.663	1362.873	1347.228	1356.890	1307.355	1316.395	1270.888
40	972.166	1005.361	979.658	1011.004	987.576	979.396	967.752	922.366	943.525	917.318
45	621.344	642.478	625.023	640.433	637.181	640.735	632.245	604.546	613.314	597.088
50	376.414	373.623	372.591	390.293	387.446	386.314	383.665	383.708	391.923	369.677
55	226.570	226.889	224.198	231.693	236.412	233.678	237.239	237.001	244.361	236.852
60	144.321	144.386	145.291	141.567	151.609	162.057	158.393	159.247	162.956	159.439
65	96.898	102.012	98.873	98.856	104.684	120.426	118.464	115.993	113.748	120.614
70	73.101	73.033	72.069	75.042	72.738	91.655	97.176	89.011	92.443	92.342
75	49.237	51.819	52.369	52.034	50.052	69.811	75.957	68.044	72.301	70.134
80	31.203	30.829	30.876	33.308	34.495	59.394	58.180	55.935	56.071	54.221
85	10.542	10.829	11.971	10.347	12.964	34.950	35.369	33.725	34.294	36.082
90	2.669	2.317	3.532	3.994	4.628	18.090	16.287	18.060	14.626	21.621
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667	9718.667
5	8750.458	8488.491	8679.039	8683.435	8424.815	8668.724	8397.599
10	6123.430	5916.772	6023.230	6019.342	5894.819	6117.393	5904.117
15	3704.127	3665.350	3657.623	3633.900	3655.983	3785.960	3728.871
20	2374.008	2409.467	2376.645	2346.571	2408.108	2466.975	2483.387
25	1859.590	1887.177	1873.753	1854.092	1889.763	1929.062	1940.938
30	1613.634	1598.891	1612.241	1623.803	1622.768	1664.088	1663.096
35	1304.604	1284.420	1304.884	1316.602	1316.918	1366.990	1349.880
40	940.370	915.115	945.224	961.377	953.344	987.434	972.166
45	610.847	593.134	609.132	622.314	618.402	626.034	621.344

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50	377.464	380.483	374.567	372.976	374.045	378.296	376.414
55	247.076	240.295	242.057	222.434	228.006	233.427	226.570
60	165.158	161.784	161.917	149.565	148.200	150.457	144.321
65	118.252	116.898	113.868	105.418	100.817	101.802	96.898
70	91.325	86.611	86.659	75.597	71.236	71.983	73.101
75	73.243	68.022	68.175	43.389	53.504	49.623	49.237
80	53.737	53.819	50.892	30.584	30.988	30.046	31.203
85	34.594	31.448	29.779	9.147	10.130	11.482	10.542
90	16.765	18.574	16.988	3.207	3.511	3.229	2.669
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1814.95	N.A.	40.70
0-30	2716.6	N.A.	60.90
0-40	3538.41	N.A.	79.30
0-60	4256.88	N.A.	95.40
0-80	4434.36	N.A.	99.30
0-90	4461.23	N.A.	99.90
10-90	3723.81	N.A.	83.40
20-40	1723.47	N.A.	38.60
20-50	2218.68	N.A.	49.70
40-70	830.91	N.A.	18.60
60-80	177.49	N.A.	4.00
70-80	65.04	N.A.	1.50
80-90	26.87	N.A.	0.60
90-110	2.88	N.A.	0.10
90-120	2.88	N.A.	0.10
90-130	2.88	N.A.	0.10
90-150	2.88	N.A.	0.10
90-180	2.88	N.A.	0.10
110-180	0.00	N.A.	0.00
0-180	4464.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	737.43
10-20	1077.52
20-30	901.65
30-40	821.81
40-50	495.21
50-60	223.25
60-70	112.45
70-80	65.04
80-90	26.87
90-100	2.88
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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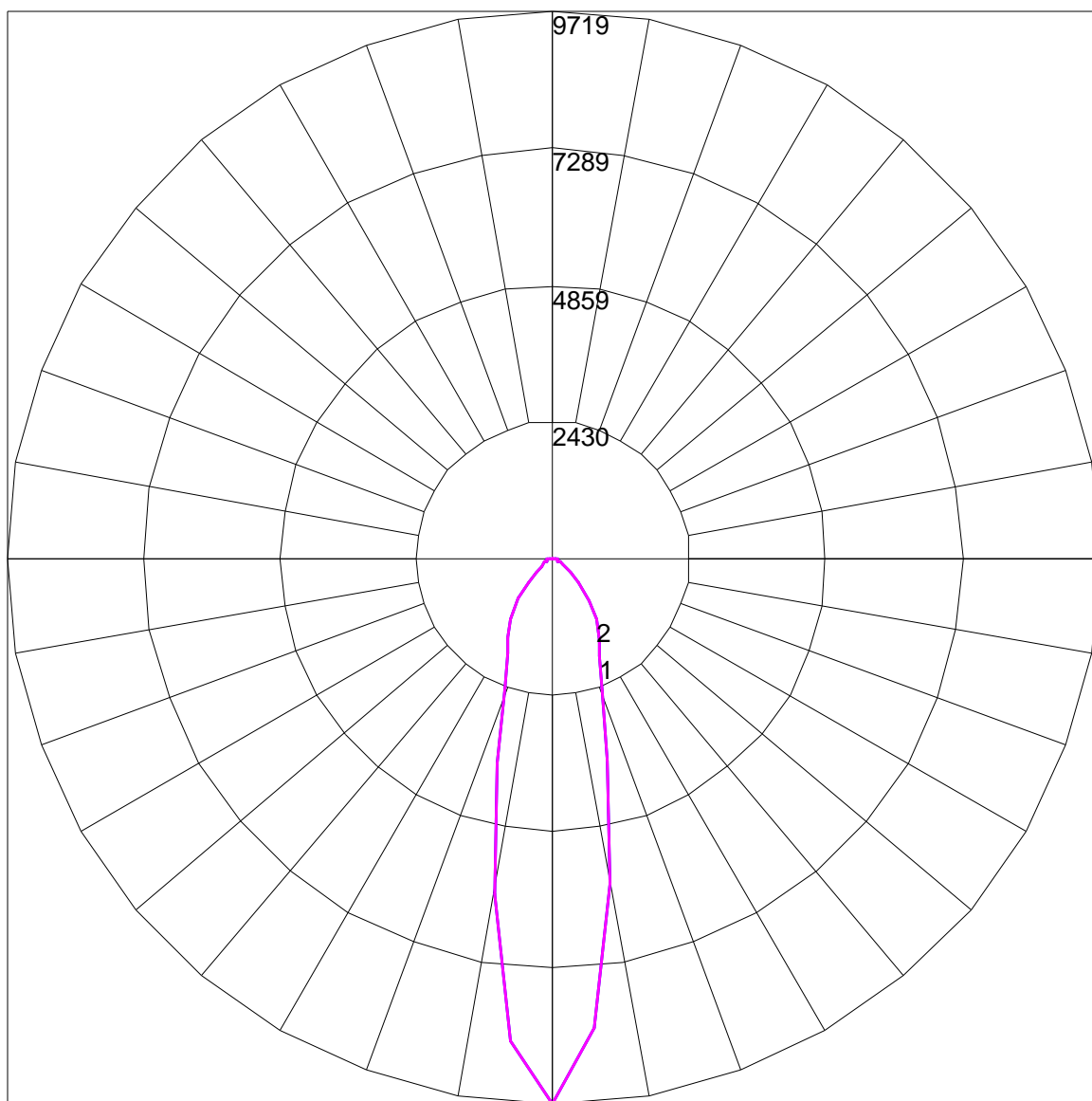
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	57	76	67	61	57	66	60	56	65	60	56	64	59	56	54
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51
10	70	60	55	51	69	60	54	50	59	54	50	58	54	50	58	53	50	49

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POLAR GRAPH



Maximum Candela = 9718.667 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)